

PATENT

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ABSTRACT

The invention relates to glass reinforcement strands, the composition of which comprises the following constituents in the limits defined below, expressed as percentages by weight: 58 to 63%  $\text{SiO}_2$ ; 10 to 16%  $\text{Al}_2\text{O}_3$ ; 16 to 23%  $\text{CaO}$ ; 0.5 to 3.5%  $\text{MgO}$ ; 0 to 2%  $\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{Li}_2\text{O}$ ; 1 to 1.5%  $\text{TiO}_2$ ; 0 to 1.5%  $\text{B}_2\text{O}_3$ ; 0 to 0.4%  $\text{Li}_2\text{O}$ ; 0 to 0.4%  $\text{ZnO}$ ; 0 to 1%  $\text{MnO}$ ; and 0 to 0.5% F. These strands have improved properties in terms of mechanical strength, acid resistance and high-temperature resistance for a low-cost composition. The invention also relates to a process for producing the said strands and to the composition allowing them to be produced.